

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500 FEET  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION U.S. G.S. B.M. M136  
0.4 MI. WEST OF INTERSECTION RT. 18 AND RT. 18 1/2

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) *R. Nelson McCas*  
 R.P.E. \_\_\_\_\_ L.L.S. 110

PLACE SEAL HERE

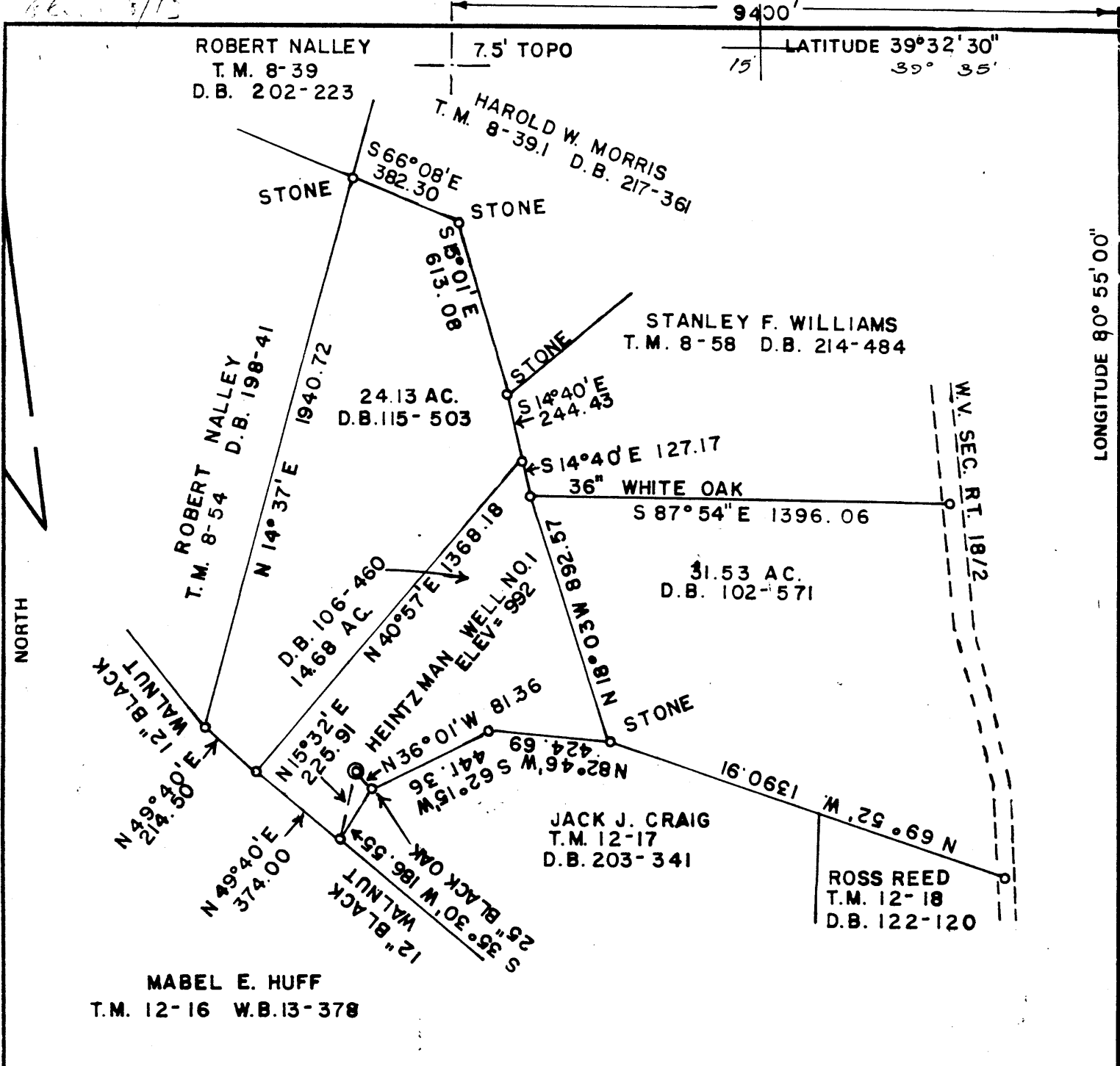
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)  
 WELL TYPE: OIL \_\_\_\_\_ GAS \_\_\_\_\_ LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X  
 LOCATION: ELEVATION 992 WATER SHED BADGER RUN  
 DISTRICT LINCOLN COUNTY TYLER  
 QUADRANGLE PADEN CITY 7.5'  
 SURFACE OWNER EMERY and HELEN HEINTZMAN ACREAGE 70.34  
 OIL & GAS ROYALTY OWNER EMERY and HELEN HEINTZMAN LEASE ACREAGE 70.34  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5,400  
 WELL OPERATOR PETROLEUM DEVEL. CORP. DESIGNATED AGENT PETROLEUM DEVEL. CORP.  
 ADDRESS 103 E. MAIN ST. P.O. BOX 26 ADDRESS 103 E. MAIN ST. P.O. BOX 26  
BRIDGEPORT, WV. 26330 BRIDGEPORT WV. 26330

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JUNE 23, 1981  
 OPERATOR'S WELL NO. 1  
 API WELL NO. \_\_\_\_\_  
47 - 095 - 0933-1  
 STATE COUNTY PERMIT  
Plugging Permit Conally

DEC 1 1986



MABEL E. HUFF  
T.M. 12-16 W.B.13-378

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500 FEET  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION U.S.G.S.B.M. M136  
0.4 MI. WEST OF INTERSECTION RT 18 AND RT 18/2

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(SIGNED) R. Nelson McCoy  
R.P.E. \_\_\_\_\_ L.L.S. 110

PLACE SEAL HERE

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FORM IV-6 (8-78)



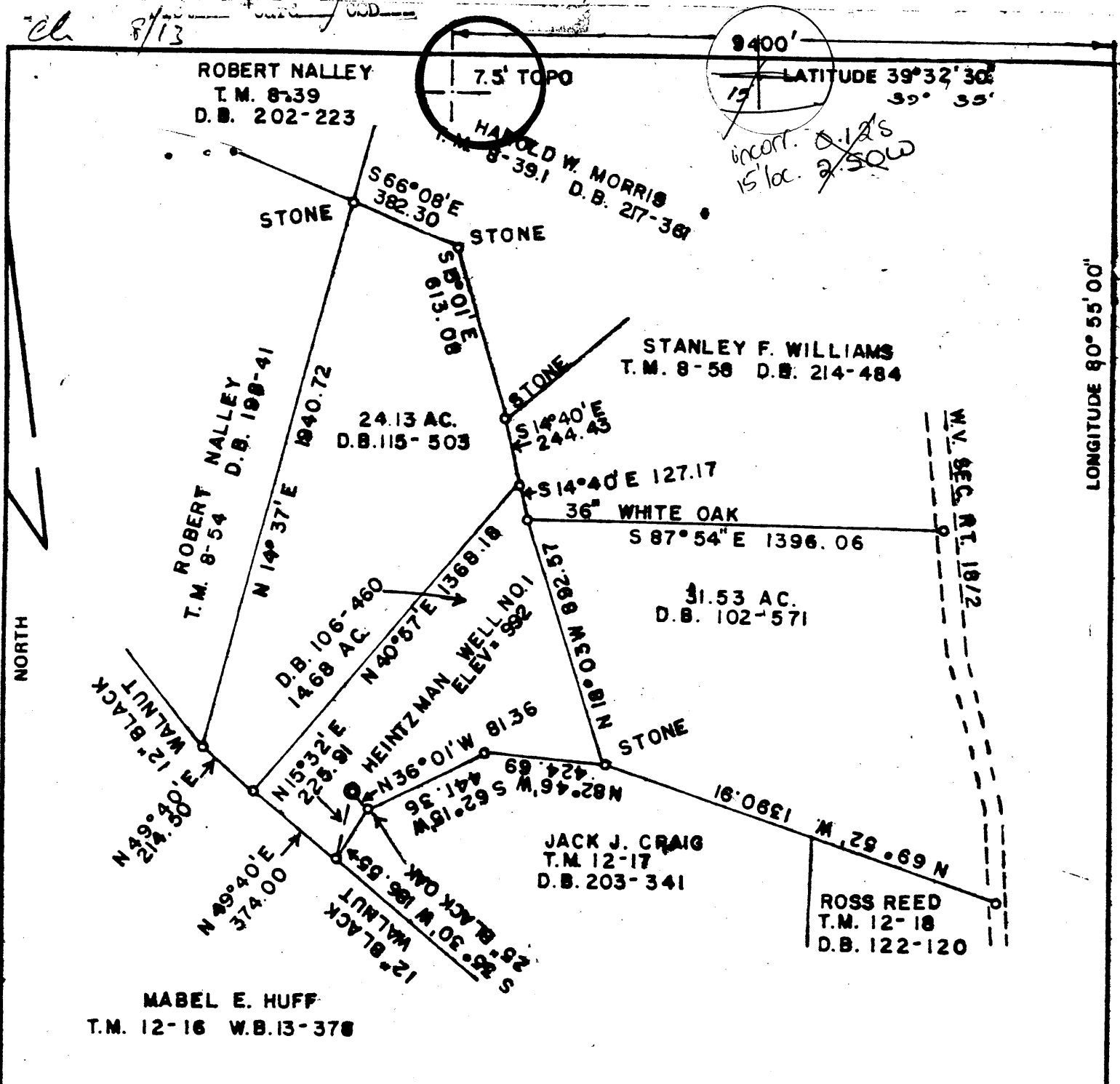
DATE JUNE 23, 1981  
OPERATOR'S WELL NO. 1  
API WELL NO. \_\_\_\_\_  
47 - 095 - 0933-P  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 992 WATER SHED BADGER RUN  
DISTRICT LINCOLN COUNTY TYLER  
QUADRANGLE PADEN CITY 7.5'  
SURFACE OWNER EMERY and HELEN HEINTZMAN ACREAGE 70.34  
OIL & GAS ROYALTY OWNER EMERY and HELEN HEINTZMAN LEASE ACREAGE 70.34  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5,400  
WELL OPERATOR PETROLEUM DEVEL. CORP. DESIGNATED AGENT PETROLEUM DEVEL. CORP.  
ADDRESS 103 E. MAIN ST. P.O. BOX 26 ADDRESS 103 E. MAIN ST. P.O. BOX 26  
BRIDGEPORT, W.V. 26330 BRIDGEPORT W.V. 26330

NOV 13 1984



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 (SIGNED) [Signature]  
 R.P.E. \_\_\_\_\_ L.S. 110

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 FORM IV-6 (8-78)



DATE JUNE 23, 1981  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. \_\_\_\_\_  
47 - 095 - 0933  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 992 WATER SHED BADGER RUN  
 DISTRICT LINCOLN COUNTY TYLER  
 QUADRANGLE PADEN CITY 7.5' New Martinsville 15' SN  
 SURFACE OWNER EMERY and HELEN HEINTZMAN ACREAGE 70.34  
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BRIDGEPORT, W.V. 26330 BRIDGEPORT W.V. 26330

AUG 24 1981



IV-35  
(Rev 8-81)

JUL 2 1983  
DEPT. OF MINES  
JUL 25 1983

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date July 15, 1983  
Operator's Well No. ONE (1)  
Farm E. HEINTZMAN  
API No. 47 - 095 - 0933

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /  
(If "Gas," production X / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 992' Watershed BADGER RUN  
District: LINCOLN County TYLER Quadrangle PADEN CITY

COMPANY PETROLEUM DEVELOPMENT CORPORATION

ADDRESS P.O. BOX 26 BRIDGEPORT, WV 26301

DESIGNATED AGENT SAME AS ABOVE

ADDRESS SAME AS ABOVE

SURFACE OWNER EMERY HEINTZMAN ET AL

ADDRESS RT. 2 SISTERSVILLE, WV 26175

MINERAL RIGHTS OWNER SAME AS ABOVE

ADDRESS SAME AS ABOVE

OIL AND GAS INSPECTOR FOR THIS WORK PHILLIP L. TRACY  
ADDRESS RT. 23 ALMA, WV 26320

PERMIT ISSUED 7/24/81

DRILLING COMMENCED 10/25/81

DRILLING COMPLETED 10/31/81

IF APPLICABLE: FLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
11 3/4	40	40	circulate
9 5/8			
8 5/8	1114	1114	275 sks
7			
5 1/2			
4 1/2	5370	5370	400 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION ALEXANDER Depth 5300 feet

Depth of completed well 5574 feet Rotary X / Cable Tools

Water strata depth: Fresh feet; Salt 1589 feet

Coal seam depths: N/A Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
K.B.-G.L.			-0	10'	
Sand, shale, red rock			10'	1794'	1" stream H <sub>2</sub> O @ 1589'
Big Lime			1794'	1898'	
Big Injun			1898'	2027'	
Squaw			2027'	2042'	
Sand, shale			2042'	2244'	Gas check @ 2150' - No show
Weir			2244'	2347'	
Sand, shale			2347'	2411'	
Berea			2411'	2422'	
Sand, shale			2422'	2818'	
Gordon			2818'	2880'	
Sand, shale			2880'	3422'	Gas check @ 2926' - No show
Speechley			3422'	3464'	Gas check @ 3200' 10/10 thru 1/2" H <sub>2</sub> O
Sand, shale			3464'	4810'	
Riley			4810'	4865'	
Sand, shale			4865'	5080'	
Benson			5080'	5092'	
Sand, shale			5092'	5377'	
Cedar Creek			5377'	5412'	
Sand, shale			5412'	5574' TD	

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION BRIDGEPORT, WV 26301

Well Operator

By:

*McEdward*

Date: July 18, 1983

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including strata, encountered in the drilling of a well."

IV-35  
(Rev 8-81)



DEPT. OF MINES

State of West Virginia

Department of Mines  
Oil and Gas Division

Date July 15, 1983  
Operator's Well No. ONE (1)  
Farm E. HEINTZMAN  
API No. 47 - 095 - 0933

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil     / Gas X / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production X / Underground Storage     / Deep     / Shallow     /)  
LOCATION: Elevation: 992' Watershed BADGER RUN  
District: LINCOLN County TYLER Quadrangle PADEN CITY

COMPANY PETROLEUM DEVELOPMENT CORPORATION  
ADDRESS P.O. BOX 26 BRIDGEPORT, WV 26301  
DESIGNATED AGENT SAME AS ABOVE  
ADDRESS SAME AS ABOVE  
SURFACE OWNER EMERY HEINTZMAN ET AL  
ADDRESS RT. 2 SISTERSVILLE, WV 26175  
MINERAL RIGHTS OWNER SAME AS ABOVE  
ADDRESS SAME AS ABOVE  
OIL AND GAS INSPECTOR FOR THIS WORK PHILLIP L. TRACY  
ADDRESS RT. 23 ALMA, WV 26320  
PERMIT ISSUED 7/24/81  
DRILLING COMMENCED 10/25/81  
DRILLING COMPLETED 10/31/81  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16			
Cond.			
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8 5/8	1114	1114	275 sks
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4 1/2	5370	5370	400 sks
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2			
Liners used			

GEOLOGICAL TARGET FORMATION ALEXANDER Depth 5300 feet  
Depth of completed well 5574 feet Rotary X / Cable Tools      
Water strata depth: Fresh     feet; Salt 1589 feet  
Coal seam depths: N/A Is coal being mined in the area?    

OPEN FLOW DATA  
Producing formation     Pay zone depth     feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow     Mcf/d Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure     psig (surface measurement) after     hours shut in  
(If applicable due to multiple completion--)  
Second producing formation     Pay zone depth     feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow     Mcf/d Oil: Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure     psig (surface measurement) after     hours shut in

(Continue on reverse side)

TW-0933

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
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(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION BRIDGEPORT, WV 26301

Well Operator

By:

*M. C. Edwards*

Date: July 18, 1983

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geophysical record of all formations, including those encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

JUL 24 1981

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE July 23, 1981  
Company Petroleum Development Corporation  
Address P. O. Box 26, Bridgeport, WV 26330  
Farm Heintzman Acres 66  
Location (waters) Badger Run  
Well No. 1 Elevation 992  
District Lincoln County Tyler  
Quadrangle Paden City

Surface Owner Emery Heintzman, et al  
Address Rt 2 Sistersville, WV 26175  
Mineral Owner Same as above  
Address \_\_\_\_\_  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 4-13-82.

INSPECTOR  
TO BE NOTIFIED Phillip L. Tracy  
ADDRESS Route 23 Alma, WV 26320  
PHONE 758-4573

J. E. Murray  
Deputy Director - Oil & Gas Division  
GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated March 7 1980 by Clarence W. Mutschelknaus made to Petroleum Development Corp and recorded on the 13th day of March 1980 in Tyler County, Book 223 Page 493  
XX \_\_\_\_\_ NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours,  
(Sign Name) John Mutschelknaus  
Well Operator  
PETROLEUM DEVELOPMENT CORPORATION

Address of Well Operator  
Street P. O. Box 26  
City or Town Bridgeport, WV 26330  
State \_\_\_\_\_

\*SECTION 3... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit recording the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

47-095-0933

PERMIT NUMBER \_\_\_\_\_



**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Unknown \_\_\_\_\_ NAME Petroleum Development Corporation \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 26, Bridgeport, WV 26330 \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE 304/842-6256 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 5300' \_\_\_\_\_ ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Alexander \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XX \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 1 1/2			
13 - 10	40	40	Circulate
9 - 5 8			
8 - 5 8	1000	1000	Circulate
5 - 1/2			
4 - 1/2		5300	<del>400</del> <sup>530</sup> SKs or as reqd. by rule 15.01
3 - 1/2			Perf. Top
2 - 1/2			Perf. Bottom
1 1/2 - 1 1/2			Perf. Top
1 1/2 - 1 1/2			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER 1800 FEET  
 APPROXIMATE COAL DEPTHS None  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER I, the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.  
 We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
 For Coal Company  
 Own. of Title